

Figure 1

MFELFSWASSTTGSRYGSAFCGSPTLAWCVCPVCYGESRILRVKVVSG
 IDLAKKDI FGASDPYVKLSLYVADENRELALVQTKTIKKTLPKWNEEF
 ^^^
 YFFVNPSNHRLLEFVFDENRLTRDDFLGQVDVPLSHLPTEDPTMERPYT
 ^^^
 FKDFLLRPRSHKSRVKGFLRLKMAYMPKNGGQDEENSQDRDDMEHGWEV
 VDSNDSASQHQEELPPPLPPGWEEKVDNLGRYYVNHNNRRTTQWHRPS

 LMDVSSESNNIRQINQEAHRRFRSRRHISEDLEPEPSEGDDVPEPWE
 *
 TISEEVNIAGDSLGVVLPPPPASPGSRTSPQELSEELSRRLQITPDSNG
 EQFSSLIQREPSSRLRSCSVTDAVAEQGHLPPPSVAYVHTTPGLPSGWE

 ERKDAKGRYYVNHNNRRTTTWTRPIMQLAEDGASGSATNSNNHLIEPQI

 RRPRSLSSPTVTLXAPLEGAKDSPVRRRAVKDTLSNPQSPQSPYNPKP
 QHKVTQSFLPPGWEMRIAPNGRPFFIDHNTKTTTWEDPRLKFPVHMRSK
 TSLNPNDLGPLPPGWEERIHLDGRIFYIDHNSKITQWEDPRLQNPAITG

 PAVPYSREFKQKYDYFRKKLKKPADIPNRFEMKLHRNNIFEESYRRIMS
 VKRPDVLKARLWIEFESEKGLDYGGVAREWFFLLSKEMFNPYYGLFEYS
 ATDNYTLQINPNSGLCNEDHLSYFTFIGRVAGLAVFHGKLDDGFFIRPF
 YKMLLGKQITLNDMESVDSEYYNSLKWILENDPTELDLMFCIDEENFGQ
 TYQVDLKPNGSEIMVTNENKREYIDLVIQWRFVNRVQKQMNAFLEGFTE
 LLPIDLIKIFDENELELLMCGLGDVDVNDWRQHSIYKNGYCPNHPVIOW
FWKAVLLMDAEKRIRLLOFVTGTSRVPMNGFAELYGSNGPOLFTIEQWG
SPEKLPRAHTCFNRLDLPPYETFEDLREKLLMAVENAOGFEGVD.

Figure 2a

1	S R F S S S S T V A C P G R G R A R P V C W K R S E M A - - T C A V E V F G L	P46934
1	- M F R L R S W A S S T T G S R Y G S A F C - G S P T L A W C V C V P V C Y G -	ZGGBP-1
39	L E D E E N S R I V R V R V I A G I G L A K K D I L G A S D P Y V R V T L Y D P	P46934
38	- - - - E S R I L R V K V V S G I D L A K K D I F G A S D P Y V K L S L Y V A	ZGGBP-1
79	M N G V - L T S V Q T K T I K K S L N P K K W N E E I L F R V H P Q Q H R R L L F E	P46934
73	D E N R E L A L V Q T K T I K K T L N P K K W N E E F Y F R V N P S N H R L L F E	ZGGBP-1
118	V F D E N R L T R D D F L G Q V D V P L Y P L P T E N P R L E R P Y T F K D F V	P46934
113	V F D E N R L T R D D F L G Q V D V P L S H L P T E D P T M E R P Y T F K D F L	ZGGBP-1
158	L H P R S H K S R V K G Y L R L K M T Y L P K T S G S E D D N A E Q A E E L E P	P46934
153	L R P R S H K S R V K G F L R L K M A Y M P K N G G Q D E E N S D Q R D D M E H	ZGGBP-1
198	G W V V L D Q P D A A C H L Q Q Q Q E P S P L P P G W E E R Q D I L G R T Y Y V	P46934
193	G W E V V D S N D S A S Q H Q E E L P P P P L P P G W E E K V D N L G R T Y Y V	ZGGBP-1
238	N H E S R R T Q W K R P T P Q D N L T D A E N G N I Q L Q - - A Q R A F T T R	P46934
233	N H N N R T T Q W H R P S L M D V S S E S D N N I R Q I N Q E A A H R R F R S R	ZGGBP-1
275	R Q I S E - - E T E S V D N Q E S S E N W E I R E D E A T M Y S S Q A F P S P	P46934
273	R H I S E D L E P E P S E G G D V P P E P W E T I S E E V N I A G D S L G V V L P	ZGGBP-1
313	P P S S N L D V - - P T H L A E E L N A R L T I F G N S A V S Q P A S S N H	P46934
313	P P P A S P G S R T S P Q E L S E E L S R R L Q I T P D S N G E Q F S S L I Q R	ZGGBP-1
350	S S R - - R G S L Q A Y T F E E Q P T L P - - - V L L P T S S G L P P G W E	P46934
353	E P S S R L R S C S V T D A V A E Q G H L P P P S V A Y V H T T P G L P S G W E	ZGGBP-1
383	E K Q D E R G R S Y Y V D H N S R T T T W T K P T V Q - - - - - A T V E	P46934
393	E R K D A K G R T Y Y V N H N N R T T T W T R P I M Q L A E D G A S G S A T N S	ZGGBP-1
414	T S Q L T S S Q S S - - - - - A G P Q S Q A S T S D - - - - -	P46934
433	N N H L I E P Q I R R P R S L S S P T V T L X A P L E G A K D S P V R R A V K D	ZGGBP-1

Figure 2b

435 - - S G Q Q V T Q P S - - - - - E I E Q G F L P K G W E V R H A P N G R P46934
 473 T L S N P Q S P Q S P Y N S P K P Q H K V T Q S F L P P G W E M R I A P N G R ZGGBP-1

464 P F F I D H N T K T T T W E D P R L K I P A H L R G K T S L D T S N D L G P L P P46934
 513 P F F I D H N T K T T T W E D P R L K P P V H M R S K T S L N - P N D L G P L P ZGGBP-1

504 P G W E E R T H T D G R I F Y I N H N I K R T Q W E D P R L E N V A I T G P A V P46934
 552 P G W E E R I H L D G R T F Y I D H N S K I T Q W E D P R L Q N P A I T G P A V ZGGBP-1

544 P Y S R D Y K R K Y E F P R R K L K K Q N D I P N K F E M K L R R A T V L E D S P46934
 592 P Y S R E F K Q K Y D Y P R K K L K K P A D I P N R F E M K L H R N N I F E E S ZGGBP-1

584 Y R R I M G V K R A D F L K A R L W I E F D G E K G L D Y G G V A R E W F F L I P46934
 632 Y R R I M S V K R P D V L K A R L W I E P E S E K G L D Y G G V A R E W F F L L ZGGBP-1

624 S K E M F N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y F K P46934
 672 S K E M P N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y P T ZGGBP-1

664 F I G R V A G M A V Y H G K L L D G F F I R P F Y K M M L H K P I T L H D M E S P46934
 712 F I G R V A G L A V F H G K L L D G F F I R P F Y K M M L G K Q I T L N D M E S ZGGBP-1

704 V D S E Y Y N S L R W I L E N D P T E L D L R F I I D E E L F G Q T H Q H E L K P46934
 752 V D S E Y Y N S L K W I L E N D P T E L D L M F C I D E E N F G Q T Y Q V D L K ZGGBP-1

744 N G S E I V V T N K N K K E Y I Y L V I Q W R F V N R I Q K Q M A A F K E G P P46934
 792 P N G S E I M V T N E N K R E Y I D L V I Q W R F V N R V Q K Q M N A F L E G P ZGGBP-1

784 F E L I P I Q D I I K I P D E N E L E L L M C G L G D V D V N D W R E H T K Y K N P46934
 832 T E L L P I D L I K I F D E N E L E L L M C G L G D V D V N D W R Q H S I Y K N ZGGBP-1

824 G Y S A N H Q V I Q W P W K A V L M M D S E K R I R L L Q F V T G T S R V P M N P46934
 872 G Y C P N H P V I Q W P W K A V L L M D A E K R I R L L Q F V T G T S R V P M N ZGGBP-1

864 G F A E L Y G S N G P Q S F T V E Q W G T P E K L P R A H T C F N R L D L P P Y P46934
 912 G P A E L Y G S N G P Q L P T I E Q W G S P E K L P R A H T C F N R L D L P P Y ZGGBP-1

904 E S F E E L W D K L Q M A I E N T Q G F D G V - D P46934
 952 E T F E D L R E K L L M A V E N A Q G F E G V D - ZGGBP-1

Figure 3

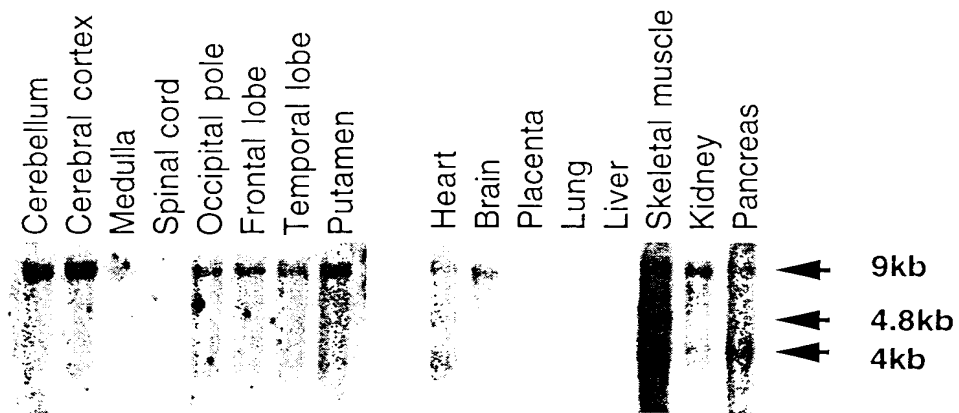


Figure 4a

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Figure 4b

385	A G T G G A T C T G A A G C C C A A C G G G T C A G A A A T A A T G G T A C C	Mouse ZGGBP-1
401	A G T G G A T T T G A A G C C C A A T G G G T C A G A A A T A A T G G T C A C A	Human ZGGBP-1
425	A A T G A G A A C A A A C G A G A A T A C A T T G A C T T A G T C A T C C A G T	Mouse ZGGBP-1
441	A A T G A A A A C A A A A G G A A T A T A T C G A C T T A G T C A T C C A G T	Human ZGGBP-1
465	G G A G A T T T G T G A A C A G G G T C C A G A A G C A A T G A A T G C C T T	Mouse ZGGBP-1
481	G G A G A T T T G T G A A C A G G G T C C A G A A G C A G A T G A A C G C C T T	Human ZGGBP-1
505	C T T G G A G G G A T T T A C A G A A C T T C T T C C A A T C G A C T T G A T T	Mouse ZGGBP-1
521	C T T G G A G G G A T T C A C A G A A C T A C T T C C T A T T G A T T T G A T T	Human ZGGBP-1
545	A A A A T T T T G A T G A A A A T G A G C T G G A G T T G C T G A T G T G C G	Mouse ZGGBP-1
561	A A A A T T T T G A T G A A A A T G A G C T G G A G T T G C T C A T G T G C G	Human ZGGBP-1
585	G C C T T G G T G A T G T C G A C G T G A A C G A C T G G A G A C A G C A T T C	Mouse ZGGBP-1
601	G C C T C G G T G A T G T G G A T G T G A A T G A C T G G A G A C A G C A T T C	Human ZGGBP-1
625	T A T T T A C A A G A A C G G C T A C T G C C C A A C C A C C C T G T C A T C	Mouse ZGGBP-1
641	T A T T T A C A A G A A C G G C T A C T G C C C A A A C C A C C C C G T C A T T	Human ZGGBP-1
665	C A G T G G T T C T G G A A G G C C G T G C T C C C T G A T G G A T G C T G A G A	Mouse ZGGBP-1
681	C A G T G G T T C T G G A A G G C T G T G C T A C T C A T G G A C G C C G A A A	Human ZGGBP-1
705	A G C G C A T C C G G T T A C T A C A G T T T G T C A C A G G C A C C T C C A G	Mouse ZGGBP-1
721	A G C G T A T C C G G T T A C T G C A G T T T G T C A C A G G G A C A T C G C G	Human ZGGBP-1
745	A G T A C C C A T G A A T G G A T T T G C C G A A C T C T A T G G T T C C A A T	Mouse ZGGBP-1
761	A G T A C C T A T G A A T G G A T T T G C C G A A C T T T A T G T T C C A A T	Human ZGGBP-1
785	G G T C C T C A G C T G T T T A C A A T A G A G C A A T G G G G C A G T C C - G	Mouse ZGGBP-1
801	G G T C C T C A G C T G T T T A C A A T A G A G C A A T G G G G C A G T C C T G	Human ZGGBP-1
824	A A A A C T A C C - A G A G C T C - T A C A T G C T T - A A T C G C	Mouse ZGGBP-1
841	A G A A C T G C C C A G A G C T C A C A C A T G C T T T A A T C G C C T T G	Human ZGGBP-1

Figure 5a

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1  C G G - - - - - T A - - - T C A G C A G A G G - - - - - Pub-3.seq
1  C A A G C G C G C A A T T A C C C T C A C T A A A G G A A C A C C A A C A C ZGGBP1.seq

16  - - - - - T G T G T - - - - - A C G G C A C T G
41  G T C G C C A G G A C T G C G C G T T C G C T G G T C G A C G G T C A Pub-3.seq
    ZGGBP1.seq

31  C T T T - - - A A A C T G G G A A G G A - - - - - G G - - - - - Pub-3.seq
81  A T T C A T C A A G G G T G G C A A G G A T C G C C T G G T C G A C G G T C A ZGGBP1.seq

51  - - - - -
121 G G T C G T C C T C G A C G C G G T T G C C C T C C T C G T C C T G T T C C A G Pub-3.seq
    ZGGBP1.seq

53  G A C G A G - - - - - G C C A G G G A G - - - - - Pub-3.seq
161 G G T G A G T G G G C G A T A C C A G G T G T C C A C C G G A A G T A C G G ZGGBP1.seq

68  - - - - - C C G G A G - - - - - Pub-3.seq
201 C C C G A C A C C T C G A C A A T C G G C G C A T C G T C G A A G T G C T T G G ZGGBP1.seq

74  - - - - - G G T C A - - - - - C C A A G G T A - - - - - G A T Pub-3.seq
241 A A A A G C G C T C C A G G T C G A T G G T G G C C G A G G T G A T G A T G A C ZGGBP1.seq

90  T T C C A G - - - - - C A G C G C - - - - - T A G Pub-3.seq
281 T T T C A G G T C G G G C G A C G C G G C A A C A G G G T C T T G A G G T A G ZGGBP1.seq

105 T C C A G C T G A A - - - C A C T T C C A G - - - - - C C T Pub-3.seq
321 C C G A G C A G G A G T C G A T G T T C A G G C T G C G T T C G T G G C T T ZGGBP1.seq

128 T G T T - - - - -
361 C G T C G A C G A C A G G C T C G C G T A T G G C T C C G C T T C T G C G G Pub-3.seq
    ZGGBP1.seq

141 C T T T - - - - -
401 C T C T C C T A C C C T G G C A T G G T G T G T G T G C C T G T G T G C Pub-3.seq
    ZGGBP1.seq

145  - - - - -
441 T A C G G A G A G T C C C G T A T T C T C A G A G T A A A G T T G T Y T C T G Pub-3.seq
    ZGGBP1.seq

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157	- - - - -	GAATWGA	CTCTCG	CAAA	AAAG	GACAT	CTTT	GGAG	CCAG	TGA	AGTGA	Pub-3.seq
481												ZGGBP1.seq
162		TCCG	TATGT	GAAC	CTTT	CA	TGT	ACGT	AGCG	ATG	AGAA	Pub-3.seq
521		TCCG	TATGT	GAAC	CTTT	CA	TGT	ACGT	AGCG	ATG	AGAA	ZGGBP1.seq
202		AGGA	ACTTG	CTTT	TGGT	CCAG	ACAA	AAAC	CAAT	TAA	AAAGA	Pub-3.seq
561		AGGA	ACTTG	CTTT	TGGT	CCAG	ACAA	AAAC	CAAT	TAA	AAAGA	ZGGBP1.seq
242		CAC	TGA	ACCC	CAAA	ATGG	AAAT	GAA	ATG	AAAT	TTC	Pub-3.seq
601		CAC	TGA	ACCC	CAAA	ATGG	AAAT	GAA	ATG	AAAT	TTC	ZGGBP1.seq
282		AAAC	CCAT	CTA	ATCA	CAG	ACTC	CTAT	TTGA	AGT	ATTT	Pub-3.seq
641		AAAC	CCAT	CTA	ATCA	CAG	ACTC	CTAT	TTGA	AGT	ATTT	ZGGBP1.seq
322		GAAA	ATAG	ACTG	ACAC	GAG	ACGG	CTTC	CTGG	CCAG	GTGG	Pub-3.seq
681		GAAA	ATAG	ACTG	ACAC	GAG	ACGG	CTTC	CTGG	CCAG	GTGG	ZGGBP1.seq
362		ACGT	GCCC	CTT	AGT	CA	CCCT	TC	CGAC	AGAT	CCAA	Pub-3.seq
721		ACGT	GCCC	CTT	AGT	CA	CCCT	TC	CGAC	AGAT	CCAA	ZGGBP1.seq
402		GGAG	CGAC	CCCT	ATA	CA	ATT	TA	AGG	ACTT	CTCT	Pub-3.seq
761		GGAG	CGAC	CCCT	ATA	CA	ATT	TA	AGG	ACTT	CTCT	ZGGBP1.seq
442		AGAA	GTC	ATA	AGT	CTCG	AGTT	AA	GGG	ATTT	TGCG	Pub-3.seq
801		AGAA	GTC	ATA	AGT	CTCG	AGTT	AA	GGG	ATTT	TGCG	ZGGBP1.seq
482		AAAT	GCCC	CTA	TATG	CCAA	AA	AAAT	GGAG	GTC	AAAT	Pub-3.seq
841		AAAT	GCCC	CTA	TATG	CCAA	AA	AAAT	GGAG	GTC	AAAT	ZGGBP1.seq
522		AAAC	AGT	GAC	CA	GAG	GGAT	GACA	TGG	AGCA	TGGA	Pub-3.seq
881		AAAC	AGT	GAC	CA	GAG	GGAT	GACA	TGG	AGCA	TGGA	ZGGBP1.seq
562		GTTG	TGAC	TCA	AAAT	GAC	TCGG	CTT	CTC	AGCA	CCAA	Pub-3.seq
921		GTTG	TGAC	TCA	AAAT	GAC	TCGG	CTT	CTC	AGCA	CCAA	ZGGBP1.seq

Figure 5c

602	A A C T T C C C T C C C T C C C T C T G C C T C C C G G G T G G A A G A A A A	Pub-3.seq
961	A A C T T C C C T C C C T C C C T C T G C C T C C C G G G T G G A A G A A A A	ZGGBP1.seq
642	A G T G G A C A A T T A G G C C G A A C T T A C T A T G T C A A C C A C A C	Pub-3.seq
1001	A G T G G A C A A T T A G G C C G A A C T T A C T A T G T C A A C C A C A C	ZGGBP1.seq
682	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	Pub-3.seq
1041	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	ZGGBP1.seq
722	T G T C C T C G G A G T C G G A C A A T A A C A T C A G A C A G A T C A A C C A	Pub-3.seq
1081	T G T C C T C G G A G T C G G A C A A T A A C A T C A G A C A G A T C A A C C A	ZGGBP1.seq
762	G G A G G C A G C A C A C C G G C G C T T C C G C T C C C G C A G G C A C A T C	Pub-3.seq
1121	G G A G G C A G C A C A C C G G C G C T T C C G C T C C C G C A G G C A C A T C	ZGGBP1.seq
802	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G C G G G A T G	Pub-3.seq
1161	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G C G G G A T G	ZGGBP1.seq
842	T C C C C G A G C C T T G G G A G A C C A T T C A G A G G A A G T G A A T A T	Pub-3.seq
1201	T C C C C G A G C C T T G G G A G A C C A T T C A G A G G A A G T G A A T A T	ZGGBP1.seq
882	C G C T G G A G A C T C T C G G T C T G G C T C T G C C C C C A C C A C C G	Pub-3.seq
1241	C G C T G G A G A C T C T C G G T C T G G T T T G C C C C C C A C C A C C G	ZGGBP1.seq
922	G T C T C C C C A G G A T C T C G G A C C A G C C C T C A G G A G C T G T C A G	Pub-3.seq
1281	G T C T C C C C A G G A T C T C G G A C C A G C C C T C A G G A G C T G T C A G	ZGGBP1.seq
962	A G G A A C T A A G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A A	Pub-3.seq
1321	A G G A A C T A A G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A A	ZGGBP1.seq
1002	T G G G G A A C A G T T C A G C T C T T T G A T T C A A A G A G A A C C C T C C	Pub-3.seq
1361	T G G G G A A C A G T T C A G C T C T T T G A T T C A A A G A G A A C C C T C C	ZGGBP1.seq
1042	T C A A G G T T G A G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	Pub-3.seq
1401	T C A A G G T T G A G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	ZGGBP1.seq
1082	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T A T G T A C A	Pub-3.seq
1441	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T A T G T A C A	ZGGBP1.seq

Figure 5d

1122	T A C C A C G C C G G G T C T G C C T T C A G G C T G G A A G A A A A A	Pub-3.seq
1481	T A C C A C G C C G G G T C T G C C T T C A G G C T G G A A G A A A A A	ZGGBP1.seq
1162	G A T G C T A A G G G G C G C A C A T A C T A T G T C A A T C A T A A C A A T C	Pub-3.seq
1521	G A T G C T A A G G G G C G C A C A T A C T A T G T C A A T C A T A A C A A T C	ZGGBP1.seq
1202	G A A C C A C A A C T T G G A C T C G A C C T A T C A T G C A G C T T G C A G A	Pub-3.seq
1561	G A A C C A C A A C T T G G A C T C G A C C T A T C A T G C A G C T T G C A G A	ZGGBP1.seq
1242	A G A T G G T G C G T C C G G A T C A G C C A C A A C A A C A C C A T	Pub-3.seq
1601	A G A T G G T G C G T C C G G A T C A G C C A C A A C A A C A C C A T	ZGGBP1.seq
1282	C T A A T C G A G C C T C A G A T C C G C C G G C C T C G T A G C C T C A G C T	Pub-3.seq
1641	C T A A T C G A G C C T C A G A T C C G C C G G C C T C G T A G C C T C A G C T	ZGGBP1.seq
1322	C G C C A A C A G T A A C T T T A T C T G C C C C G C T G G A G G G T G C C A A	Pub-3.seq
1681	C G C C A A C A G T A A C T T T A T T G C C C C G C T G G A G G G T G C C A A	ZGGBP1.seq
1362	G A C T C A C C C G T A C G T C G G G C T G T G A A A G A C A C C C T T C C	Pub-3.seq
1721	G A C T C A C C C G T A C G T C G G G C T G T G A A A G A C A C C C T T C C	ZGGBP1.seq
1402	A A C C C A C A G T C C C C A C A G C C A T C A C C T T A C A A C T C C C C A	Pub-3.seq
1761	A A C C C A C A G T C C C C A C A G C C A T C A C C T T A C A A C T C C C C A	ZGGBP1.seq
1442	A A C C A C A C A C A A A G T C A C A C A G A G C T T C T T G C C A C C C G G	Pub-3.seq
1801	A A C C A C A C A C A A A G T C A C A C A G A G C T T C T T G C C A C C C G G	ZGGBP1.seq
1482	C T G G G A A A T G A G G A T A G C G C C A A C G G C C G G C C C T C T T C	Pub-3.seq
1841	C T G G G A A A T G A G G A T A G C G C C A A C G G C C G G C C C T C T T C	ZGGBP1.seq
1522	A T T G A T C A T A A C A C A A G A C A C A A C C T G G G A A G A T C C A C	Pub-3.seq
1881	A T T G A T C A T A A C A C A A G A C T A C A A C C T G G G A A G A T C C A C	ZGGBP1.seq

Figure 5e

1562	G T T T G A A A A T T T C C A G T A C A T A T G C G G T C A A A G A C A T C T T T	Pub-3.seq
1563	G T T T G A A A A T T T C C A G T A C A T A T G C G G T C A A A G A C A T C T T T	ZGGBP1.seq
1602	A A A C C C C C A A T G A C C C T T G G C C C C C T T C C C T C C T G G C T G G G A A	Pub-3.seq
1603	A A A C C C C C A A T G A C C C T T G G C C C C C T T C C C T C C T G G C T G G G A A	ZGGBP1.seq
1642	G A A A G A A T T C A C T T G G A T G G C C C G A A C G T T T T A T A T T G A T C	Pub-3.seq
1643	G A A A G A A T T C A C T T G G A T G G C C C G A A C G T T T T A T A T T G A T C	ZGGBP1.seq
1682	A T A A T A G C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	Pub-3.seq
1683	A T A A T A G C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	ZGGBP1.seq
1722	G A A C C C A G C T A T T A C T G G T C C G G C T G T C C C T T A C T C C A G A	Pub-3.seq
1723	G A A C C C A G C T A T T A C T G G T C C G G C T G T C C C T T A C T C C A G A	ZGGBP1.seq
1762	G A A T T T A A G C A G A A A T A T G A C T A C T T C A G G A A G A A A T T A A	Pub-3.seq
1763	G A A T T T A A G C A G A A A T A T G A C T A C T T C A G G A A G A A A T T A A	ZGGBP1.seq
1802	A G A A A C C T G C T G A T A T C C C C A A T A G G T T T G A A A T G A A A C T	Pub-3.seq
1803	A G A A A C C T G C T G A T A T C C C C A A T A G G T T T G A A A T G A A A C T	ZGGBP1.seq
1842	T C A C A G A A A T A A C A T A T T T G A A G A G T C C T A T C G G A G A A T T	Pub-3.seq
1843	T C A C A G A A A T A A C A T A T T T G A A G A G T C C T A T C G G A G A A T T	ZGGBP1.seq
1882	A T G T C C G T G A A A A G A C C A G A T G T C C T A A A A G C T A G A C T G T	Pub-3.seq
1883	A T G T C C G T G A A A A G A C C A G A T G T C C T A A A A G C T A G A C T G T	ZGGBP1.seq
1922	G G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	Pub-3.seq
1923	G G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	ZGGBP1.seq
1962	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	Pub-3.seq
1963	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	ZGGBP1.seq
2002	T T C A A C C C C T A C T A C G G C C C T T T G A G T A C T C T G C C A C G G	Pub-3.seq
2003	T T C A A C C C C T A C T A C G G C C C T T T G A G T A C T C T G C C A C G G	ZGGBP1.seq
2042	A C A A C T A C A C C C T T C A G A T C A A C C C T A A T T C A G G C C C T C T G	Pub-3.seq
2043	A C A A C T A C A C C C T T C A G A T C A A C C C T A A T T C A G G C C C T C T G	ZGGBP1.seq

Figure 5f

2082	T A A T G A G G A T C A T T T G T C C T A C T T C A C T T T T A T T G G A A G A	Pub-3.seq
2441	T A A T G A G G A T C A T T T G T C C T A C T T C A C T T T T A T T G G A A G A	ZGGBP1.seq
2122	G T T G C T G G T C T G G C C G T A T T T C A T G G G A A G C T C T T A G A T G	Pub-3.seq
2481	G T T G C T G G T C T G G C C G T A T T T C A T G G G A A G C T C T T A G A T G	ZGGBP1.seq
2162	G T T T C T T C A T T A G A C C A T T T T A C A A G A T G A T G T T G G G A A A	Pub-3.seq
2521	G T T T C T T C A T T A G A C C A T T T T A C A A G A T G A T G T T G G G A A A	ZGGBP1.seq
2202	G C A G A T A A C C C T G A A T G A C A T G G A A T C T G T G G A A T G A C C C T A	Pub-3.seq
2561	G C A G A T A A C C C T G A A T G A C A T G G A A T C T G T G G A A T G A C C C T A	ZGGBP1.seq
2242	T A T T A C A A C T C T T T G A A A T G G A T C C T G G A G A A T G A C C C T A	Pub-3.seq
2601	T A T T A C A A C T C T T T G A A A T G G A T C C T G G A G A A T G A C C C T A	ZGGBP1.seq
2282	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G A G A A A A C T T	Pub-3.seq
2641	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G A G A A A A C T T	ZGGBP1.seq
2322	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	Pub-3.seq
2681	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	ZGGBP1.seq
2362	G A A A T A A T G G T C A C A A A T G A A A C A A A A G G G A A T A T A T C G	Pub-3.seq
2721	G A A A T A A T G G T C A C A A A T G A A A C A A A A G G G A A T A T A T C G	ZGGBP1.seq
2402	A C T T A G T C A T C C A G T G G A G A T T T G T G A C A C A G G T C C A G A A	Pub-3.seq
2761	A C T T A G T C A T C C A G T G G A G A T T T G T G A C A C A G G T C C A G A A	ZGGBP1.seq
2442	G C A G A T G A A C G C C T T C T T G G A G G A T T C A C A G A A C T A C T T	Pub-3.seq
2801	G C A G A T G A A C G C C T T C T T G G A G G A T T C A C A G A A C T A C T T	ZGGBP1.seq
2482	C C T A T T G A T T T G A T T A A A A T T T T T G A T G A A A T G A G C T G G	Pub-3.seq
2841	C C T A T T G A T T T G A T T A A A A T T T T T G A T G A A A T G A G C T G G	ZGGBP1.seq

Figure 5g

2522	A G T T G C C T C A T G T G C G G C C T C G G T G A T G T G G A T G T G A A T G A	Pub-3.seq
2881	A G T T G C T C A T G T G C G G C C T C G G T G A T G T G G A T G T G A A T G A	ZGGBP1.seq
2562	C T G G A G A C A G C A T T C T A T T T A C A A G A A C G G C T A C T G C C C A	Pub-3.seq
2921	C T G G A G A C A G C A T T C T A T T T A C A A G A A C G G C T A C T G C C C A	ZGGBP1.seq
2602	A C C A C C C C G T C A T T C A G T G G T T C T G G A A G G C T G T G C T A C	Pub-3.seq
2961	A C C A C C C C G T C A T T C A G T G G T T C T G G A A G G C T G T G C T A C	ZGGBP1.seq
2642	T C A T G G A C G C C G A A A A G C G T A T C C G G T T A C T G C A G T T T G T	Pub-3.seq
3001	T C A T G G A C G C C G A A A A G C G T A T C C G G T T A C T G C A G T T T G T	ZGGBP1.seq
2682	C A C A G G G A C A T C G C G A G T A C C T A T G A A T G G A T T T G C C G A A	Pub-3.seq
3041	C A C A G G G A C A T C G C G A G T A C C T A T G A A T G G A T T T G C C G A A	ZGGBP1.seq
2722	C T T A T G G T T C C A A T G G T C C T C A G C T G T T T A C A A T A G A G C	Pub-3.seq
3081	C T T A T G G T T C C A A T G G T C C T C A G C T G T T T A C A A T A G A G C	ZGGBP1.seq
2762	A A T G G G G C A G T C C T G A G A A A C T C C C C A G A G C T C A C A C A T G	Pub-3.seq
3121	A A T G G G G C A G T C C T G A G A A A C T C C C C A G A G C T C A C A C A T G	ZGGBP1.seq
2802	C T T A A T C G C C T T G A C T T A C C T C C A T A T G A A A C C T T T G A A	Pub-3.seq
3161	C T T A A T C G C C T T G A C T T A C C T C C A T A T G A A A C C T T T G A A	ZGGBP1.seq
2842	G A T T T A C G A G A G A A A C T T C T C A T G G C C G T G G A A A A T G C T C	Pub-3.seq
3201	G A T T T A C G A G A G A A A C T T C T C A T G G C C G T G G A A A A T G C T C	ZGGBP1.seq
2882	A A G G A T T T G A A G G G G T G G A T T A A G C A C C C T G T G C C T C G G G	Pub-3.seq
3241	A A G G A T T T G A A G G G G T G G A T T A A G C A C C C T G T G C C T C G G G	ZGGBP1.seq
2922	G G T G G T T G T T C T T C A A G C A A G T T C T G C T T G C A C T T T T G C A	Pub-3.seq
3281	G G T G G T T G T T C T T C A A G C A A G T T C T G C T T G C A C T T T T G C A	ZGGBP1.seq
2962	T T T G C C T A A C A G A C T T T T G C A G A G G C G A T G G C A G A G A G C A	Pub-3.seq
3321	T T T G C C T A A C A G A C T T T T G C A G A G G C G A T G G C A G A G A G C A	ZGGBP1.seq
3002	G C T G C A G G C A T G G T C C C T G G A G C C G A G C C T T C A C C A C G C A	Pub-3.seq
3361	G C T G C A G G C A T G G T C C C T G G A G C C G A G C C T T C A C C A C G C A	ZGGBP1.seq

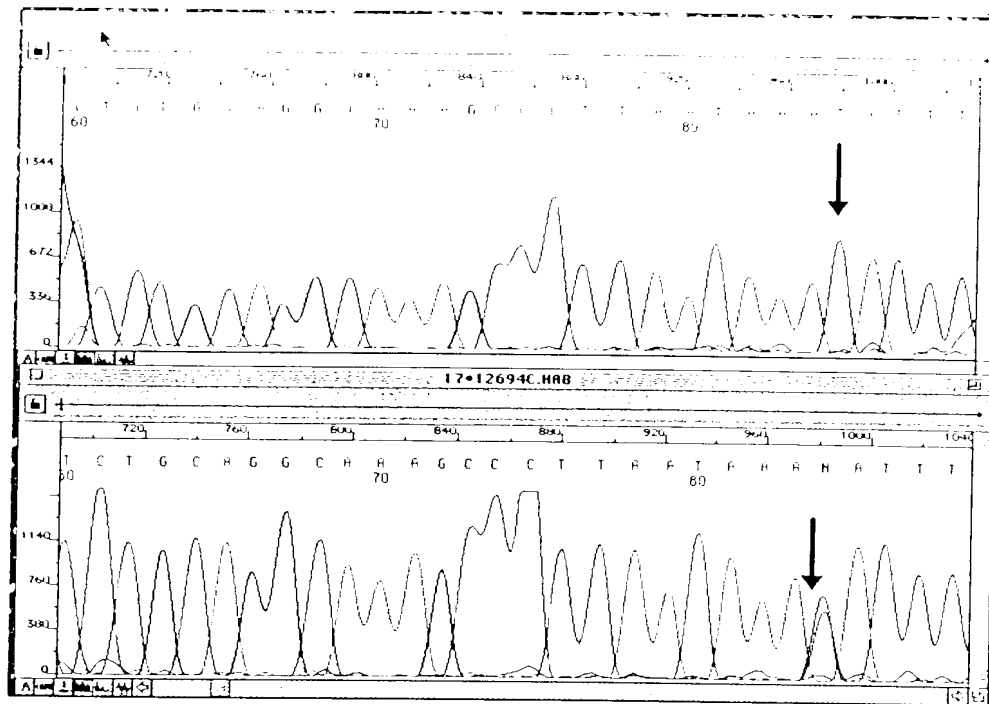
3208	- - - - -	A G A C A A G T A C T T T G A G A G A A T T T C C A A T A T A T A T T A G A C	- - - - -	Pub-3.seq ZGGBP1.seq
3840	- - - - -	A T A A T G A T A A T T T T T C C A T A C T C A G A A T G A A A A C T G G A	- - - - -	Pub-3.seq ZGGBP1.seq
3208	- - - - -	T A T T A C G T T T T T G T T T T G G G G T T T T T T T G T A C A A T T T A G	- - - - -	Pub-3.seq ZGGBP1.seq
3920	- - - - -	C T A A T A G C T A C A G G C T G A G A G A A T T G T A A C A T A G C A T G A C	- - - - -	Pub-3.seq ZGGBP1.seq
3214	- - - - -	A A A T T T T G T G T T G A C T T G A A A G G A A T C A C A C C A T T A T T C C	- - - - -	Pub-3.seq ZGGBP1.seq
4000	- - - - -	T T A G A A G T A A T T A C A T G T G T T C T A A C A C A T T T G A G A C A G G	- - - - -	Pub-3.seq ZGGBP1.seq
3214	- - - - -	G T T G G A C T C C C A T T T C T C A T C C G A G A A A T T A C T T A A C C C T	- - - - -	Pub-3.seq ZGGBP1.seq
4080	- - - - -	T C C T G G G C G C T G T A C A G T C A T C T T T T A T T C T A T T T C C T C T	- - - - -	Pub-3.seq ZGGBP1.seq
3214	- - - - -	T T G C T G T T T G T A G T A G A G A C A T T T T G A A T G A A A C T T G G C A	- - - - -	Pub-3.seq ZGGBP1.seq
4160	- - - - -	C T G C T T G A T T C A A A C T G T G G A A A C C A G A T C T G T T T A G T C	- - - - -	Pub-3.seq ZGGBP1.seq
3214	- - - - -	T C C T G T T T G T A T G C G T T T G C T A A T G G T A G C T A A A T A C C A	- - - - -	Pub-3.seq ZGGBP1.seq
4240	- - - - -	G T T T T T G T T A A A T G C A C C A A T T C T G A A G G C A C T T T A T G	- - - - -	Pub-3.seq ZGGBP1.seq
3214	- - - - -	T A C T A C A T G G A G G T C A T A T C T G G T T T T G T T T T A T T T T T	- - - - -	Pub-3.seq ZGGBP1.seq
4280	- - - - -		- - - - -	
4320	- - - - -		- - - - -	

[illegible]

[illegible]

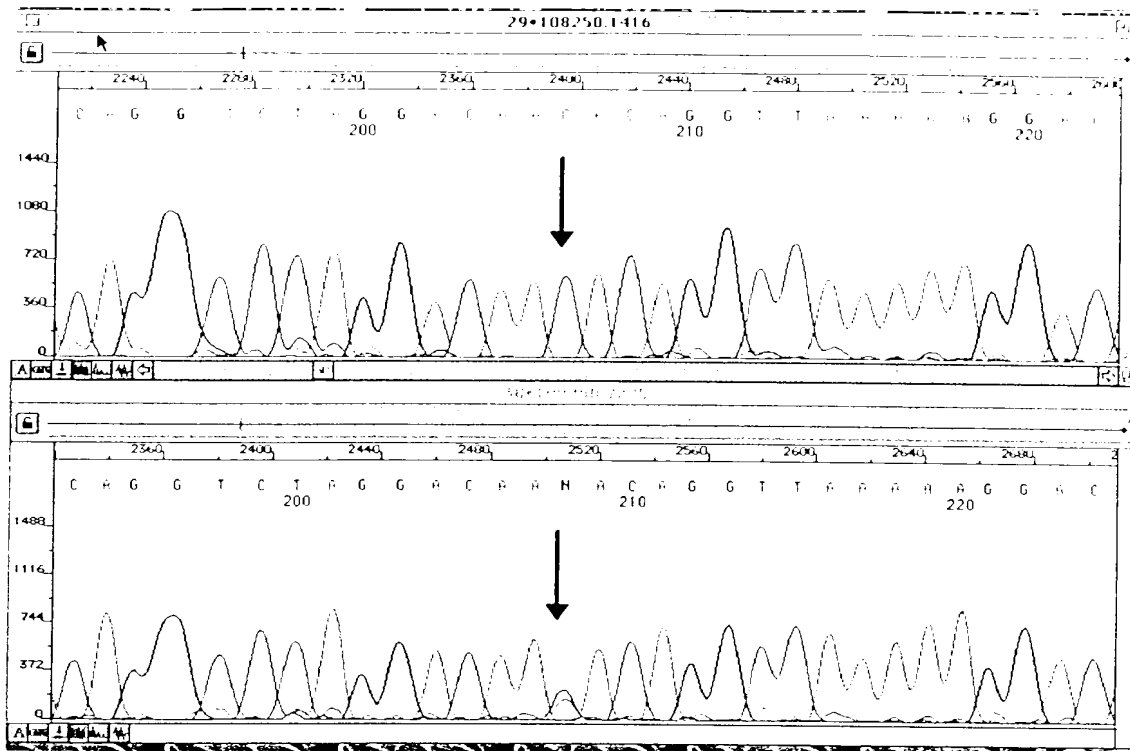
Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Figure 6

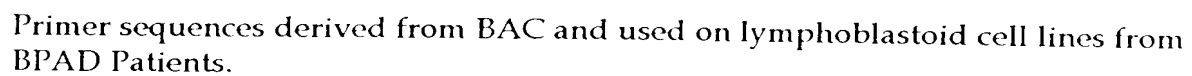


Wild Type (human foetal brain)	T/T
Variant Type (human adult brain)	T/C
Polymorphism Position	3554
RFLP	-

Figure 7



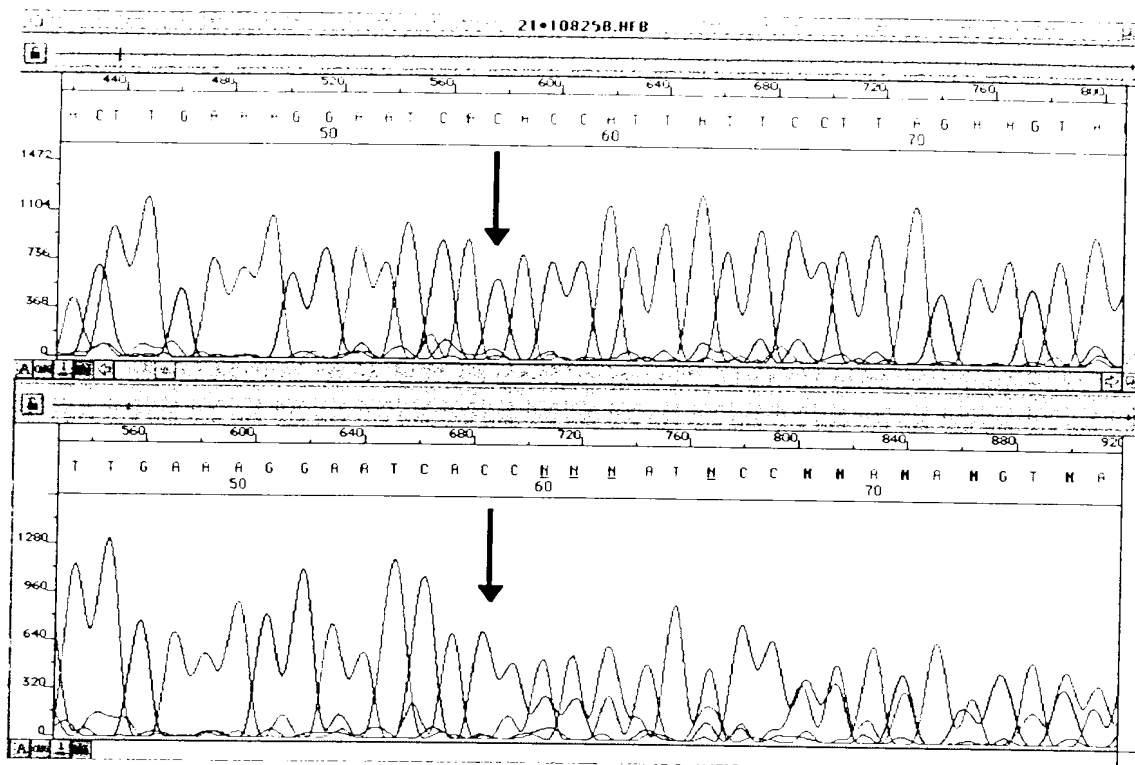
Wild Type (GM1416)	C/C
Variant (7225)	C/G
Position	4828



Homozygous variant (KK232) - C/C

Tetranucleotide repeat underlined

Figure 10



Top electropherogram (human foetal brain) - wild type

Lower electropherogram (7225) - heterozygous variant

Arrow indicates the position of the C+C insertion - position 4032